

## Development of Aligned Carbon-Nano-tubes for solar cell applications

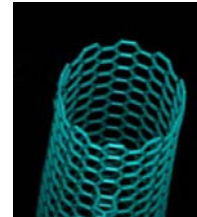
**Supervisors:** Dr Zeyad Alwahabi and Dr Sheng Dai

**Nature of work:** Design, Experiment, and Modelling

**Area:** Advanced Materials

**Funding:** *Via* the various University scholarship schemes (see separate information for these).

**Brief description:** The Centre for Energy Technology, CET, at the University of Adelaide recognises that a key to realising a clean energy future is the development of technologies that make the transition cost-effective. Hence the Centre seeks to identify, develop and support the implementation of such technologies by undertaking innovative and outstanding research, technology development and consulting activities in partnership with industry, government and the community.

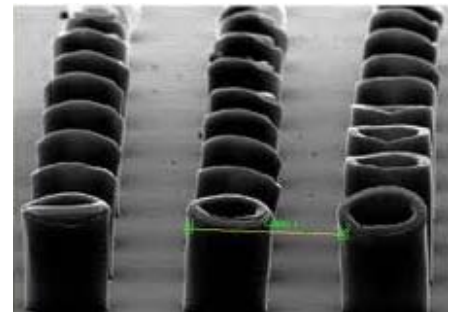


Members of the Centre are internationally recognised for their leading research into clean energy technologies and practices that reduce emissions, increase energy efficiency and decrease the cost of energy. With a wide range of facilities spanning laboratory to pilot-scale, our team of researchers are pledged to creating a culture of research excellence and delivering significant breakthroughs in the development of innovative technologies for a clean energy future.

Future energy sources must have low impact on the environment. Solar cells provide many advantages than traditional energy sources.

Aligned Carbon Nano-Tubes (aCNT) can be directly integrated to dye based solar cells. This is to boost the efficiency and to pave the way to low cost solar cells in the future.

This exciting project aims to synthesis the aCNTs in a unique environment assisted by state-of-the-art laser techniques.



The CET is looking to attract one student to be part of this exciting project. The project will suit an enthusiastic student with inquisitive mind and urge for scientific discoveries. This is an opportunity to join a dynamic leading group and will receive ample of support and guidance throughout the candidature.

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